

What is claimed is:

1 1. A vehicular under-seat compartment mechanism
2 for utilizing space under a seat having a seat-frame and
3 a seat-cushion disposed on the seat-frame, said mechanism
4 comprising:

5 a hinge mechanism interconnecting the seat-frame
6 and the seat-cushion in such a manner that the
7 seat-cushion is pivotally rotatable with respect to the
8 seat-frame;

9 a compartment, which is disposed in the under-seat
10 space under the seat and is formed an opening upwardly,
11 and

12 a lock mechanism, integrated with said hinge
13 mechanism, for locking the seat-cushion at an upright
14 position, at which the seat-cushion is pivotally flipped
15 up about said hinge mechanism so that said compartment
16 is accessible.

1 2. A vehicular under-seat compartment mechanism,
2 according to claim 1, further comprising a release
3 mechanism for releasing the locking of the seat-cushion
4 by said lock mechanism.

1 3. A vehicular under-seat compartment mechanism
2 according to claim 2, wherein said release mechanism
3 includes

4 an unlocking strap disposed at a rear end of the
5 seat-cushion, and

6 a wire linking between said unlocking strap and said
7 lock mechanism in such a manner that when said unlocking
8 strap is operated by an user, the locking of the
9 seat-cushion by said lock mechanism is released.

1 4. A vehicular under-seat compartment mechanism
2 according to claim 3, wherein said lock mechanism
3 includes

4 a cam, fixed on the seat-frame, said cam having a
5 first slot and a second slot, and

6 a lock member, disposed to the seat-cushion for
7 selectively engaging with one of said first and second
8 slot so that when said lock member engages with said
9 second slot, the seat-cushion is locked in the upright
10 position and so that when said lock member engages with
11 said first slot, the seat-cushion is locked in a
12 horizontal position at which the seat-cushion lays on
13 the seat-frame horizontally.

1 5. A vehicular under-seat compartment mechanism
2 according to claim 4, further comprising an inner lid,
3 disposed between the seat-cushion and said compartment,
4 for covering the opening of said compartment.

1 6. A vehicular under-seat compartment mechanism

2 according to claim 5, further comprising
3 a seat-hook attached at the back face of the
4 seat-cushion, and
5 an inner lid strap attached to said inner lid to
6 be hooked on said seat-hook.

1 7. A vehicular under-seat compartment mechanism
2 according to claim 6, further comprising an extra wall
3 upwardly projected from an edge of the opening of said
4 compartment along with the edge of the opening.

1 8. A vehicular under-seat compartment mechanism
2 according to claim 7, further comprising one or more
3 netting hooks, disposed around the opening of said
4 compartment, for engaging a net so as to keep an object
5 in said compartment.

1 9. A vehicular under-seat compartment mechanism
2 according to claim 1, wherein said lock mechanism
3 includes
4 a cam, fixed on the seat-frame, said cam having a
5 first slot and a second slot, and
6 a lock member, disposed to the seat-cushion for
7 selectively engaging with one of said first and second
8 slot so that when said lock member engages with said
9 second slot, the seat-cushion is locked in the upright
10 position and so that when said lock member engages with

11 said first slot, the seat-cushion is locked in a
12 horizontal position at which the seat-cushion lays on
13 the seat-frame horizontally.

1 10. A vehicular under-seat compartment mechanism
2 according to claim 4, further comprising
3 a seat-hook attached at the back face of the
4 seat-cushion, and
5 an inner lid strap attached to said inner lid to
6 be hooked on said seat-hook.

1 11. A vehicular under-seat compartment mechanism
2 according to claim 10, further comprising an extra wall
3 upwardly projected from an edge of the opening of said
4 compartment along with the edge of the opening.

1 12. A vehicular under-seat compartment mechanism
2 according to claim 1, further comprising
3 a seat-hook attached at the back face of the
4 seat-cushion, and
5 an inner lid strap attached to said inner lid to
6 be hooked on said seat-hook.

1 13. A vehicular under-seat compartment mechanism
2 according to claim 1, further comprising an inner lid,
3 disposed between the seat-cushion and said compartment,
4 for covering the opening of said compartment.

1 14. A vehicular under-seat compartment mechanism
2 according to claim 13, further comprising
3 a seat-hook attached at the back face of the
4 seat-cushion, and
5 an inner lid strap attached to said inner lid to
6 be hooked on said seat-hook.

1 15. A vehicular under-seat compartment mechanism
2 according to claim 14, further comprising an extra wall
3 upwardly projected from an edge of the opening of said
4 compartment along with the edge of the opening.

1 16. A vehicular under-seat compartment mechanism
2 according to claim 15, further comprising one or more
3 netting hooks, disposed around the opening of said
4 compartment, for engaging a net so as to keep an object
5 in said compartment.

1 17. A vehicular under-seat compartment mechanism
2 according to claim 13, further comprising an extra wall
3 upwardly projected from an edge of the opening of said
4 compartment along with the edge of the opening.

1 18. A vehicular under-seat compartment mechanism
2 according to claim 17, further comprising one or more
3 netting hooks, disposed around the opening of said
4 compartment, for engaging a net so as to keep an object

5 in said compartment.